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Synthesis and Properties of 4-Alkyl- and 4,4'-Dialkylbiphenyls and Their Hydrogenation Products of Composition $\rm C_{16}^{-C}_{32}$

77854 SOV/79-30-2-5/78

Hydrogenation of biphenyls was carried out over Raney Ni in solution of dimethylcyclohexane. Table 2 lists some of the synthesized monoalkyl- and lialkylbiphenyls (and respective bicyclohexanes) and their properties. Viscosity of the biphenyls as a function of temperature is shown in Figs. 1 and 2, while Figs. 3, 4, and 5 give infrared spectra (taken by V. A. Shlyapochnikov on the IKS-12 spectrophotometer with a NaCl prism) for some of the biphenyls and for the bicyclohexyls. There are 5 figures; 3 tables; and 6 references, 3 Soviet, 1 Japanese, 1 German, 1 U.K. The U.K. references is: P. Everitt, D. Hall, E. E. Turner, J. Chem. Soc., 1956, 2286.

ASSOCIATION:

Institute of Organic Chemistry of the Academy of Sciences, USSR (Institut organicheskoy khimii Akademii nauk SSSR)

SUBMITTED:

February 4, 1959

Card 3/9

77854, SOV/79-30-2-5/78

Key to Table 2: (1) Nr of compound; (2) hydrocarbons of 4-mono- and 4,4'-dialkylbicyclohexyl series; (3) temperature; (4) of boiling (pressure in mm); (5) of solidification (6) calculated; (7) found; (8) viscosity (in stokes; (9) empirical formula.

	a	3				MR.		8				7 (%)			6 (%)	
/		4	5	d#	n	6	7	30°	500	1600	1904	c	H	9	c	×
(IX)	<	(30° (3)	52*	0.8789	1.4780	71,69	71.63	0.1065	0.0440	0.0168	0.0113	86.30, 96,45	13.54, 13.50	C ₁₈ H ₂₈	86.40	i359
(X)		186—18 (9)	-3-10	0.8764	1.4783	80.92	80.94	0.1061	0.0659	0.0227	0.0127	86.28, 86.37	13.61, 13.61	C18H34	86.31	13.64
(XI)		190—193 (5)	-12	0.8718	1.4770	90.18	90.25	0.2210	0.0798	0.0269	0.2726	86.28, 86.07	13.68, 13.87	C _{to} H ₂₄	85.25	13.84
(XII)	$C_4H_9-\langle \underline{} \rangle -\langle \underline{} \rangle -C_4H_9$	170-172 (3)	-7	0.8721	1.4775	90,18	90.32	0.2726	0.0625	11.0284	0.0143	86. 11, 86. 13	13.85, 13.19	C _m H _m	86.25	13.75
(XIII)	C1H18-C-C1H18	305—206 (5)	-10	0.8754	1.4785	117.85	117.51	0.6614	0.1936	0.0495	0.0218	85.18, 85.36	13.92, 13.63	C ₉₆ H ₂₈	86.05	13.86
(XIV)	Call11-<>-<>Call11	210-242 (5)	-1	0.8709	1.4785	127.1	127.12	0.6,92	0.1952	0.0511	0.0232	85.93, 85.83	13.87, 13.93	Cto H _M	86.06	13.94
(XV)	-CH-CaH ₁₃	195—196 (3)	-35 plan	0.8774	1.4810	99.73	99.34	0.6958	Q.1861	0.0397	ROIRS	M.23, 86.30	13.12, 13.90	C ^{as} H11	85.10	13.87
(XVI)	C ₆ H ₁₃ -CH-()-()-CH-C ₆ H ₁₃	210-242 (2)	18 	0.8780	1.4820	45.5	145.1					86.04, 86.22	13.85, 13.91	Calles	86.01	13.66
1		1	l	,	,											

Synthesis and Properties of 4-Alkyl- and 4-4'-Dialkylbiphenyls and Their Hydrogenation Products of Composition $^{\rm C}_{16}$ - $^{\rm C}_{32}$

77854 S0V/79-30-2-5/78

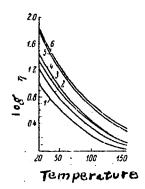
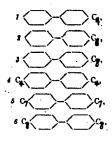


Fig. 1. Viscosity of hydrocarbons containing straight-chain alkyl radicals.

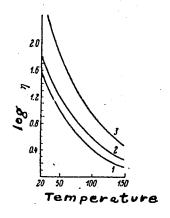


Card 5/9

APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000720510002-4"

THE RESERVE THE PROPERTY OF TH

Synthesis and Properties of 4-Alkyl- and 4-4'-Dialkylbiphenyls and Their Hydrogenation Products of Composition $^{\rm C}_{16}$



77854 SOV/79-30-2-5/78

Fig. 2. Viscosity of hydrocarbons containing branched-chain alkyl radicals.

Card 6/9

Synthesis and Properties of 4-Alkyl- and 4-4:-Dialkylbiphenyls and Their Hydrogenation Products of Composition c_{16}^{-c} 32

Card 8/9

Isolating o-terphenyl from vat residues of benzene pyrolysis.

Zhur.prikl.khim. 33 no.5:1226-1229 ky '60. (MIRA 13:7)

(Terphenyl) (Benzene)

S/020/61/137/003/019/030 B103/B208

AUTHORS:

Kaplan, Ye. P., Kazakova, Z. I. and Petrov, A. D.,

Corresponding Member

TITLE:

Order of addition of lithium to diphenyl

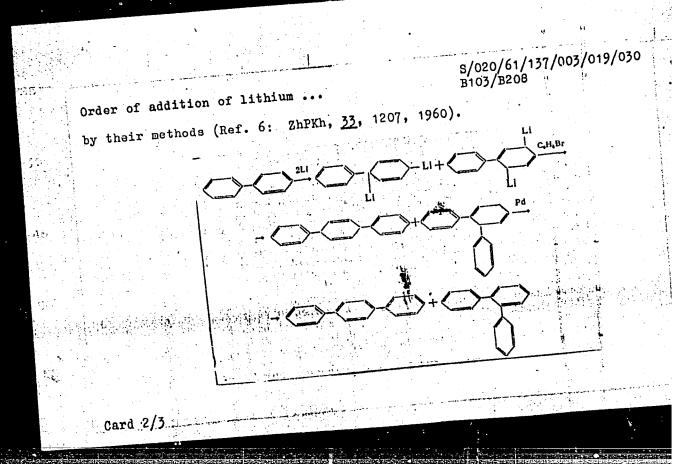
PERIODICAL:

Doklady Akademii nauk SSSR, v. 137, no. 3, 1961, 606-608

TEXT: The authors determine the point of addition of lithium to diphenyl, as the most probable position of alkyl substituents in alkyl dihydrodiphenyls has not been clarified as yet. The positions 1,4 and 2,5 were indicated in publications. The authors used two methods:

1) oxidation of dihydrodiphenyl by SeO₂, and 2) condensation of dilithium dihydrodiphenyl with bromo-benzene, giving terphenyls which are easily identified. Ad 1): The attempt failed, as the expected products (phenyl cyclohexadienone, phenyl quinone) did not result, but a reduction of cyclohexadienone, phenyl quinone) did not result, but a reduction of dihydrodiphenyl to diphenyl occurred. Ad 2): Condensation in ethereal medium and dehydrogenation of the reaction product on Pd-on-carbon gave medium and dehydrogenation of the authors isolated therefrom o- and p-terphenyl a mixture of terphenyls. The authors isolated therefrom o- and p-terphenyl

Card 1/3



Order of addition of lithium ...

S/020/61/137/003/019/030 B103/B208

m-terphenyl could not be obtained. o- or p-isomer predominates, depending on the reaction temperature. 50% of o-terphenyl and more than 50% of the p-isomer are formed at 30°C and 0°C, respectively. Ye. D. Lubuzh determined the infrared spectra for which she is thanked. The UR-10 device was used for this purpose. The bands detected were assigned to the p- and o-isomers. In conclusion, the authors state that lithium may be added to diphenyl both in 1,4- and 2,5-position. The p-isomer possibly results from isomerization of the o-isomer. There are 7 references: 4 Soviet-bloc and 3 non-Soviet-bloc. The reference to the Englishlanguage publication reads as follows: "G. M. Bedger, J. Am. Chem. Soc., 69, 764 (1947).

ASSOCIATION:

Institut organicheskoy khimii im. N. D. Zelinskogo Akademii

nauk SSSR (Institute of Organic Chemistry imeni N. D.

Zelinskiy of the Academy of Sciences USSR)

SUBMITTED:

December 21, 1960

Card 3/3

"APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000720510002-4

PETROV, A.D.; KAPLAN, Ye.P.; KURASH, M.

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Interaction of iso-C3H7Cl and tert-C,H9Cl with arcmatic acid esters in the presence of magnesium and lithium. Zhur. ob. khim. 32 no.l: 19-24 Ja '62. (MIRA 15:2) (Alkyl halides) (Esters) (Lithium compo: ids)

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S/195/62/003/005/002/007 E075/E436

AUTHORS: Moli

Molin, Yu.N., Chkheidze, I.I., Kaplan, Ye.P.,

Buben, N.Ya., Voyevodskiy, V.V.

TITLE:

Formation of radicals during radiolysis of solid organic materials. Part I. Comparison of radical yields in various organic compounds

PERIODICAL: Kinetika i kataliz, v.3, no.5, 1962, 674-679

TEXT: The work was carried out to establish a connection between molecular structure and probability of its dissociation into radicals under the action of high energy radiation. A series of naphthenic and hydroaromatic hydrocarbons with non-conjugated unsaturated bonds were investigated as well as some aromatic compounds (di- and triphenyls and phenyl ethers). The purity of the compounds was 95 to 99%. The solids were irradiated with fast electrons, the dosage varying between 0.02 and 1 Mrads/sec. Maximum dosage reached 30 Mrads. The yields of free radicals were determined by electron paramagne ic resonance at -170 to -110°C using the initial linear part of the curves relating the numbers of radicals formed to time of Card 1/3

Formation of radicals ...

S/195/62/003/005/002/007 E075/E436

irradiation. It was found that for naphthenic and hydroaromatic hydrocarbons the yields amounted to several radicals per 100 eV of absorbed energy. A large yield was also obtained for n-hexadecene-1. Thus the unsaturated bonds in these compounds do not inhibit the radical formation. This conclusion does not agree with that obtained by A. Charlesby and M.G.Ormerod (V. Intern. Symp. on Free Radicals, Uppsala, 1961, paper 11). For the aromatic compounds the yields are smaller by 1 to 2 orders of magnitude. The yields decrease with the increasing number of conjugated double bonds in aromatic molecules and with the increasing degree of substitution of benzene rings with groups containing unshared electron pairs or multiple bonds conjugated with the aromatic system of the molecule. It is concluded that the yield of radicals $G_{\rm R}$ decreases with the decreasing first excitation energy level E1. Especially marked changes in the yield are observed when $E_1 \approx DCH$, where DCH is the energy of There are I figure and 2 tables.

ASSOCIATIONS: Institut khimicheskoy fiziki AN SSSR (Institute of Chemical Physics AS "SSR) Card 2/3

Formation of radicals ...

8/195/62/003/005/002/007 E075/E436

Institut khimicheskoy kinetiki i goreniya SO AN SSSR (Institute of Chemical Kinetics and Combustion SO AS USSR)

Institut organicheskoy khimii AN SSSR (Institute of Organic Chemistry AS USSR)

SUBMITTED:

May 9, 1962

Card 3/3

PETROV, A.D.; KAPLAN, Ye.P.; TSIR, Ya.

Effect of temperature on the direction of the reaction of fatty acid esters with lithium alkyls. Zhur.ob.khim. 32 no.3:693-698 Mr '62. (MIRA 15:3)

1. Institut organicheskoy khimii imeni N.D. Zelinskogo AN SSSR. (Acids, Fatty) (Lithium compounds)

PETROV, A. D.; KAPLAN, Ye. P.; KAZAKOVA, Z. I.; LUBUZH, Ye. D.

Synthesis of o-alkyl and o-aryl biphenyls. Izv. AN SSSR. Otd. khim. nauk no.1:161-166 '63. (MIRA 16:1)

1. Institut organicheskoy khimii im. N. D. Zelinskogo AN SSSR.
(Biphenyl)

S/089/63/014/003/015/020 B102/B186

AUTHORS:

Sevast'yanov, Yu. G., Bulanov, L. A., Kaplan, Ye. P., Nefedov, O. M., Smirnov-Averin, A. P.

TITLE:

An activation method for quantitative determination of organically bound sulfur impurities in polyphenyls

PERIODICAL: Atomnaya energiya, v. 14, no. 3, 1963, 324 - 326

TEXT: A great disadvantage of using polyphenyls as coolants and moderators in power reactors is their content of sulfur impurities (due to the production conditions). S³² changes over into P³² in fast-neutron induced (n,p) reactions, while P³² emits betas of 1.7 MeV and renders the coolant regeneration difficult; moreover, sulfur reacts with the tube material to form metal sulfides which cause corrosion. In order to determine the S³² content an activation method based on the S³²(n,p)p³² reaction was developed. The P³² activity is determined on comparison with a reference standard (pure Na₂SO₄), the irradiation (total 10^{18} n/cm²)

An activation method for ...

S/089/63/014/003/015/020 B102/B186

taking 26 - 28 hrs; between irradiation and analysis a period of 7 - 10 days was used for complete decay of Na²⁴. The induced activity was measured with an end-window counter with a 78 mg/cm² aluminum filter. A content of ~0.1 % S in a batch of 10 - 20 mg was found to correspond to ~3 to 5 times, quantities of 0.001 - 0.0005 % S can even be determined. There is 1 table.

SUBMITTED: March 10, 1962

Card 2/2

"APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000720510002-4

EFR/EWP(j)/EPF(c)/EPF(n)-2/2011(m)/HDS/ES(s)-2 AFFTC/ASD/RSD-3/AFWL/ SSD Pa-4/Pc-4/Pr-4/Pu-4/Pt-4 RM/WW/EAT

ACCESSION NR: AP3002260 -

5/0089/63/014/006/0555/0558

AUTHOR: Sevast'yanov, Yz. G.; Bulanov, L.A.; Smirnov-Averin, A. P.; Kaplan, Ye. P; Nefedov. O. M.; Chel'tsova, M. A.; Fetrov. A. D.

TITLE: Thermal and radiation stability of certain aromatic compounds

SOURCE: Atomnaya energiya, v. 14, no. 6, 1963, 555-558

TOPIC TAGS: pyrolysis, radiolysis, Gamma radiation, neutron radiation, thermal stability, radiation stability, polycyclic aromatic hydrocarbons, naphthalene, anthracene, biphenyl, terphenyl, alkylated biphenyls, alkylated terphenyls, diphenyl methane, phenoxybiphenyl

ABSTRACT: The pyrolysis and Gamma radiation induced and neutron-radiation induced radiolysis of a number of polycyclic aromatic hydrocarbons, (isopropyl-and phenyl-substituted biphenyls, naphthalenes, and terphenyls; polyphenylenes with methylene bridges between the rings; and phenoxybiphenyl isomers) have been studied. The samples were degassed beforehand to prevent oxidation. A study of pyrolysis7at 4000 indicated that the stability of biphenyls and terphenyls was two to three orders above that of Alphaphenylnaphthalene, the alkyl-

Card 1/3

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ACCESSION NR: AP3002260

2

substituted hydrocarbons, and the aromatic ethers. An increase in the number of alkyl substituents in the hydrocarbons decreased their thermal stability. Of the alkyl-substituted hydrocarbons, isopropyl-m-terphenyl was found to be the most stable to decomposition to gaseous products and isopropylbiphenyl the most stable to polymerization. Thermal stability decreased from biphenyl to phenoxyliphenyls. The pyrolysis kinetics was studied by additional pyrolysis of the most stable compound, m-terphenyl, at 194, 475, and 459C. From the results obtained, rate constants of pyrolysis were calculated, and activation energy was found to be about 70 kcal/mol. Pyrolysis at 410C of polyphenylenes with methylene bridges between the rings revealed that their thermal stability was three orders below that of m-terphenyl. In experiments with irradiation of the hydrocarbons in a neutron field (10 sup 13 n/cu cm sec) at 60 and 350C, m-terphenyl was found to be the most stable of all the compounds. An increase in temperature from 60 to 350C increased radiation-induced decomposition by a factor of 3.8. From Gammairradiation experiments (dose, 10 sup 21 ev/g) it was found that the energy absorbed was not sufficient to produce radiolytic decomposition of biphenyl, terphenyls, or phenylnaphthalenes. It was concluded that the superior thermal and radiation stability shown by biphenyl and by the terphenyl isomers makes. them suitable as heat transfer agents for nuclear power reactors. Orig. art. has: 5 tables.

Card 2/3

KAPLAN, Ye.P.; ZAKHAROVA, S.V.; PETROV, A.D.

Interaction of sec- and tert-butyllithium with esters of bensoic, phenylacetic, hydroxycinnamic, and cyclohexanecarboxylic acids.

Zhur.ob.khim. 33 no.7:2103-2106 Jl '63. (MIRA 16:8)

1. Institut organicheskoy khimii imeni N.D.Zelinskogo AN SSSR. (Lithium organic compounds) (Acids, Organic)

MOLIN, Yu.N.; CHKEIDZE, I.I.; KAPLAN, Yo.P.; BUBEN, N.Ya.; VOYE-VODSKIY, V.V.

Formation of radicals in the radiolysis of solid organic substances. Part 2: Yield of radicals in benzene and biphenyl derivatives. Kin. i kat. 4 no.4:557-560 JI-Ag '63. (MIRA 16:11)

1. Institut khimicheskoy fiziki AN SSSR, Institut khimicheskoy organicheskoy khimii AN SSSR.

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KAPLAN, Ye.P.; PETROV, A.D. [deceased]

Interaction of acid esters with lithium alkyls. Dokl. AN SSSR 155 no.6:1352-1353 Ap '64. (MIRA 17:4)

- 1. Institut organicheskoy khimii im. N.D. Zelinskogo AN SSSR.
- 2. Chlen-korrespondent AN SSSR (for Petrov).

"APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000720510002-4

L 23511-65 EWT(m)/EPF(c)/EPR/EWP(j) Po-4/Pr-4/Ps-5/Pi-4 RPL WW/

ACCESSION NR: AP4047127 S/0080/64/037/010/2283/2286

AUT. IOR: Kaplan, Ye. P.; Kazakova, Z. I.; Sevast'yanov, Yu. G.; Smirr.ov-Averini, A. P.; Petrov, A. D.

TITLE: Preparation and properties of isopropylterphenyl

SOURCE: Zhurnal prikladnoy khimii, v. 37, no. 10, 1964, 2283-2286

TOPIC TAGS: isopropylterphenyl, synthesis, preparation, property, disopropylterphenyl, heat transfer agent, thermal stability, radiation stability, isomerization

ABSTRACT: The preparation of isopropylterphenyl by alkylation and its isomerization under alkylation conditions were investigated, as well as its thermal/radiation and viscosity properties. Alkylation of terphenyl with isopropyl chloride using AlCl₃ catalyst in hexane solution at 0-25C gave mono-tetra isopropylterphenyls. The monoisopropylterphenyl yield was optimum with reactant terphenyl: isopropyl chloride: AlCl₃ ratio of 1:2:0.5; disopropylterphenyl was maximum with a 1:4:1 ratio. Isomerization depended on catalyst (no isomerization with $\rm H_3PO_4$)

Cord 1/2

"APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000720510002-4

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ACCESSION NR: AP4047127

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and temperature (isomerization with AlCl₃ catalyst increased with temperature). Isopropylterphenyl has high radiation and thermal stability. It can be used as a heat transfer agent in the 200-390C temperature range. Its higher boiling temperature and smaller decomposition in comparison to isopropyldiphenyl make it more promising for this application. Orig. art. has: 4 tables and 1 figure

ASSOCIATION: None

SUBMITTED: 02Sep63

ENCL: 00

SUB CODE: OC, GC

NO REF SOV: 003

OTHER: 007

Cord 2/2

KAPLAN, Ya.P., KAZAKOVA, Z.1., FETROV, A.D. [deceased]

Interaction of lithium adduct of benzene with tert-C4HcCl and n-C4HcCl. Izv. AN SSSR. Ser. khim. no.3:537-538 '65. (MIRA 18:5)

1. Institut organicheskoy khimii im. N.D.Zelinskogo AN SSSR.

8(3)

SOV/105-59-5-16/29

AUTHOR: Kaplan, Ye. S., Candidate of Technical Sciences (Kuybyshev)

TITLE: Some Particularities in the Propagation of a Homogeneous Cylindrical Electromagnetic Wave (Nekotoryye osobennosti

rasprostraneniya odnorodnoy tsilindricheskoy elektromagnitnoy

volny)

PERIODICAL: Elektrichestvo, 1959, Nr 5, pp 68-69 (USSR)

ABSTRACT: The particularities in the propagation of a homogeneous cylin-

drical electromagnetic wave in a conducting medium surrounding a cable insulated from this medium (e.g. in the outer casing of a coaxial cable, or in water surrounding a submarine cable) are investigated here. For simplification, it is assumed that

 $\frac{\partial}{\partial z} = 0$ and $\frac{\partial}{\partial \varphi} = 0$. Besides, it is assumed that $\frac{\partial}{\partial t} = j\omega$. The

field of such wave changes its intensity and phase only along the radius (Refs 1, 2). Then it is assumed that the thickness of the casing of the coaxial cable (or the thickness of the sea-water layer around the cable) is sufficient for a complete

dying-out of the wave in the casing. In such case, the intensity of the electric and of the magnetic fields in the medium is expressed by the Hankel functions of the zeroth $(H_0^{(2)})$, and

Card 1/3 of the first $(H_1^{(2)})$ order, and formulas (1) are given here.

Some Particularities in the Propagation of a Homogeneous Cylindrical Electromagnetic Wave

RECENSE EN CONTESTACIONES EN TOTAL PRODUCTION TOTAL DE LA CONTESTA DEL CONTESTA DE LA CONTESTA DE LA CONTESTA DEL CONTESTA DE LA CONTESTA DEL CONTESTA DE LA CONTESTA DE LA CONTESTA DE LA CONTESTA DE LA CONTESTA DEL CONTESTA DE LA CONTESTA DEL CONTESTA DE LA CONTESTA DEL CONTESTA DE LA CONTE

From these, the formulas (5) for the relative amplitudes K and K_{m} of the electric and magnetic waves, as well as the formulas (6) for the phase velocities $\mathbf{v}_{\mathbf{e}}$ and $\mathbf{v}_{\mathbf{m}}$ in the propagation of these waves, are then derived. These formulas (5) and (6) shows that not only the relative amplitudes but also the phase velocities in the propagation of a cylindrical wave are functions of the coordinates. These functions, and consequently the propagation laws expressed by these functions, are different for the electric and magnetic waves. With the use of the asymptotic approximation of the Hankel functions, the formulas (5) and (6) for the near zone where $|jkg| \ll 1$ are transformed into the formulas (7) and (8), and for the far zone where $\left|-jk\rho\right|\gg 1$ into the formulas (9) and (10). g is the distance of the observation point from the cable axis, $k = \sqrt{j\omega \mu \gamma}$. Thus, the electric wave weakly fades out in the near zone. In the first approximation, its amplitude is proportional to the $\ln \frac{D}{g}$, D being a constant depending on the electromagnetic properties of the medium. The fadingout of the amplitude of the magnetic wave does not depend on

Card 2/3

SOV/105-59-5-16/29 Some Particularities in the Propagation of a Homogeneous Cylindrical Electromagnetic Wave

the type of the medium, and follows a certain hyperbolic law for the fading-out of the magnetic field in a conductor with round cross section. In the distant zone, the amplitudes of the electric and magnetic waves tend to zero if the value Q increases. The phase velocities in the propagation of the electric and magnetic waves show a constant value only in the distant zone. This value is equal to the propagation velocity of a plane wave. In the near zone, these two waves have different phase velocities: the velocity of the electric wave is lower than the velocity of the plane wave, and the velocity of the magnetic wave is higher. In the intermediate zone, a continuous change (from point to point) of the propagation functions (5) and (6) takes place. There are 2 Soviet references.

SUBMITTED: November 13, 1958

Card 3/3

SOV/170-59-6-3/20

L. 06/13/2000

CIA-RDP86-00513R000720510002-4"

On the Effect of Electromagnetic Properties of the Surrounding

On the Effect of Electromagnetic Parameters of Coaxial Lines On the Effect of Electromagnetic Properties of the Surr Medium on the Longitudinal Parameters of Coaxial Lines Inzhenerno-fizicheskiy zhurnal, 1959, Nr 6, pp 18-27 (USSR) Kaplan, Ye.S. The skin effect in coaxial lines is usually considered under an assumption that the thickness of the cable outer envelope is The skin eliget in coaxial lines is usually considered under is envelope is the cable outer envelope this the thickness of the cable outer if this this this assumption is admissible infinitely great. 8(3) assumption that the thickness of the cable outer envelope is the cable outer envelope in the cable outer envelope is the cable outer envelope in the cable outer envelope is the cable outer envelope in the cable outer envelope is the cable outer envelope in the cable outer envelope is the cable outer envelope in the cable outer envelope is the cable outer envelope in the cable outer envelope is the cable outer envelope in the cable outer envelope is the cable outer envelope in the cable outer envelope is the cable outer envelope in the cable oute AUTHOR: ness exceeds considerably the so-called depth of electromagnetic in low-frequency coaxis field penetration. This condition is not fulfilled, and lines of long extension. TITLE: Tield penetration. In some cases, as e.g., in tow-irequency condition is not fulfilled, and this condition is not fulfilled, into lines of long extension, this condition the cable envelope in the cable envelope in the cable envelope in the cable envelope. lines of long extension, this condition is not fulfilled, and the cable envelope into this condition is not fulfilled, and the cable envelope into the cable envelope. PERIODICAL: electromagnetic field penetrates beyond the cable envelope lnto conexternal space. The present article treats such a surrounding medium external space. Explication cable and the surrounding medium sidering the hollow colindrical cable and the surrounding medium sidering the hollow colindrical cable and the surrounding medium sidering the hollow colindrical cable and the surrounding medium sidering the hollow colindrical cable and the surrounding medium sidering the hollow colindrical cable and the surrounding medium sidering the hollow colindrical cable and the surrounding medium sidering the hollow colindrical cable and the surrounding medium sidering the hollow colindrical cable and the surrounding medium sidering the hollow colindrical cable and the surrounding medium sidering the hollow colindrical cable and the surrounding medium sidering the hollow colindrical cable and the surrounding medium sidering the hollow colindrical cable and the surrounding medium sidering the hollow colindrical cable and the surrounding medium sidering the hollow colindrical cable and the surrounding medium sidering the hollow colindrical cable and the surrounding medium sidering the hollow colindrical cable and the surrounding medium sidering the sidering sidering the sidering sidering sidering the sidering sid external space. The present article treats such a case by conmedium

The present article treats such a case by conmedium
attricts and the surrounding medium
cylindrical cable and the surrounding medium
attricts the hollow cylindrical cable and the first laver of which is composite envelope. eidering the hollow cylindrical cable and the surrounding medium to describe the first layer of which is the first layer of which is infinitely thick.

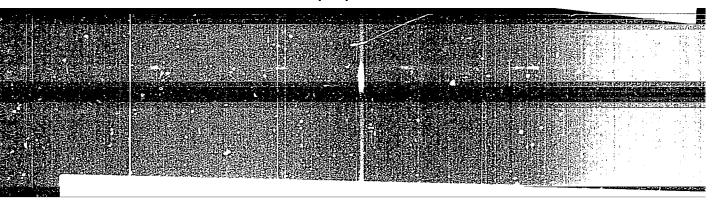
as a two-layer composite envelope, (medium) is infinitely made by a finite thickness and the second (medium) case was made by a finite to describe the field for an analogous case was made by attempt to describe the field for an analogous case was made by a finite to describe the field for an analogous case was made by a finite to describe the field for an analogous case was made by a finite to describe the field for an analogous case was made by a finite to describe the field for an analogous case was made by a finite to describe the field for an analogous case was made by a finite to describe the field for an analogous case was made by a finite to describe the field for an analogous case was made by a finite to describe the field for an analogous case was made by a finite to describe the field for an analogous case was made by a finite to describe the field for an analogous case was made by a finite to describe the field for an analogous case was made by a finite to describe the field for an analogous case was made by a finite to describe the field for an analogous case was made by a field for an analogous case was made by a finite to describe the field for an analogous case was made by a field for an analogous case was made by a field for an analogous case was made by a field for an analogous case was made by a field for an analogous case was made by a field for an analogous case was made by a field for an analogous case was made by a field for an analogous case was a field for an analogous ca ABSTRACT: a finite thickness and the second (medium) is infinitely thick.

a field for an analogous case was made by attempt to describe the field for AT but their annuach is oriver the second (medium) is infinitely thick.

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card 1/4

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SOV/170-59-6-3/20

On the Effect of Electromagnetic Properties of the Surrounding Medium on the Longitudinal Parameters of Coaxial Lines

There are: 1 diagram and 5 Soviet references.

ASSOCIATION: Industrial nyy institut im. V.V. Kyubysheva (Industrial Institute

imeni V.V. Kuybyshev), town of Kuybyshev.

Card 4/4

CIA-RDP86-00513R000720510002-4" **APPROVED FOR RELEASE: 06/13/2000**

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SOV/143-60-1-9/21

AUTHOR:

Kaplan, Ye.S., Candidate of Technical Sciences

TITLE:

The Phenomenon of "Splitting" in a Uniform Cylin-

drical Electromagnetic Wave

PERIODICAL:

Izvestiya vysshikh uchebnykh zavedeniy: Energetika,

1960, Nr 1, pp 59 - 67 (USSR)

ABSTRACT:

This is a description and mathematical analysis of the "splitting" phenomenon in a uniform cylindrical electromagnetic wave. By "splitting" is meant the acquisition of different attenuations and phase speeds by the electric and magnetic waves: it expresses the fundamental properties of all electromagnetic fields capable of technical realization. The author found that attenuation of a magnetic wave along the radius is more intense than that of an electric wave. In the near distribution zone, the phase speed of the magnetic wave exceeds the speed of light, while the phase speed

of the electric wave is many times less than the

Card 1/2

APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000720510002-4"

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S/143/62/000/004/001/006 D238/D307

AUTHOR:

Kaplan, Ye.S., Candidate of Technical Sciences, Docent

TITLE:

Electromagnetic wave processes in the mass of a solid

conductor of circular cross-section

PERIODICAL:

Izvestiya vysshikh uchebnykh zavedeniy. Energetika, 5

no. 4, 1962, 41 - 48

TEXT: Propagation of a cylindrical wave proceeds according to laws materially different from those set out for propagation of a plane electromagnetic wave as described by means of its damping and phase velocity. Generally speaking, the electrical and magnetic components of the wave field possess not only different damping, but also different phase velocities. This phenomenon, described as a 'splitting' of the electromagnetic wave is accompanied by a change in the damping and velocity of propagation of the wave, in step with the variation in the radial coordinate of the point of observation. Previous works have investigated the wave 'split' process as applicable to the field in the outer sheath of a coaxial cable, in addition to the field in the soil, water and atmosphere surrounding a single conductard 1/2

Electromagnetic wave processes in ...

\$/143/62/000/004/001/006 D238/D307

tor or coaxial cable. The present investigation of the characteristics of this phenomenon as applied to the field in the body of a solid conductor of circular section yields expressions for determining the damping and phase velocity of propagation of an electromagnetic wave. The propagation functions of an electromagnetic wave are derived for investigating the main propagation functions in the boundary and axial zones of the conductor. It is demonstrated from fields is not arbitrary, but follows a definite relationship. Any irrespective of its geometric features are mistaken, since they equally represent negation of the Maxwell equations.

ASSOCIATION: Kuybyshevskiy industrial nyy institut imeni V.V. Kuybysheva (Kuybyshev Industrial Institute, imeni V.V. Kuybyshev)

SUBMITTED:

March 6, 1961

Card 2/2

KAFIAN, Ye.J.

Predominant use of the international system of units in a course on electricity. Izv.vys.ucheb.zav.;fiz.no. 2:39-41 164.

Selection and method of determining the fundamental electromagnetic unit in the international system of units. Ibid.:41-45 (MERA 17:6)

1. Kuybyshevskiy pedagogichoskiy institut imeni Enybysheva.

BENEFIT BENEFI

KAPLAN, Ye.S.

iresent-day problems demanding further improvement of the MKSA system of units. Izv. vys. ucheb. zav.; fiz. no.4:152-157 *64 (MIRA 17:8)

1. Kuybyshevskiy pedagogicheskiy institut imeni Kuybysheva.

L 04236-67 EWT(1)

AR6031902

SOURCE CODE: UR/0058/66/000/006/H043/H043

AUTHOR: Kaplan, Ye. S.; Baybursyan, E. D.

Modern Company of the Company of the

TITLE: Magnetic type transmission line using ferrites

SOURCE: Ref. zh. Fizika. Abs. 6Zh297

REF SOURCE: Tr. 1-y Mezhvuz. konferentsii ped. in-tov po radiofiz. i

spektroskopii. M., 1965, 126-137

TOPIC TAGS: transmission line, reluctance, permeance, ferrite magnetic

circuit

ABSTRACT: A two-conductor open magnetic type transmission line using guiding elements in the form of round ferrite magnetic circuits is investigated. The reluctance and permeance are calculated. It is shown that at given frequencies and electromagnetic parameters of the ferrite, the nature of its internal reluctance reactance depends on the magnetic circuit diameter. Conditions for line transparency are established. Problems concerning the correct selection of the ferrite brand and transverse dimensions of the line are discussed. [Translation of abstractl

SUB CODE: 09, 20/

مام 1/1 Card

KAPLAM, Ye.Yo

"The Problem of the Mechanism of the Therapeutic Action of Species Honspecific Serum During Traumatic Shock." Cand Med Sci, Chair of Pathology and Physiology, Rostov-on-Don Medical Inst, Rostov-on-Don, 1955. (KL, No 15, Apr 55)

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SO: Sum. No. 704, 2 Nov 55 - Survey of Scientific and Technical Dissertations Defended at USSR Higher Educational Institutions (16).

KAPLAN, Ye. Ya.

Kaplan, Ye. Ya.

"The problem of the mechanism of the therapeutic effect of Belen'kiy's therapeutic serum in traumatic shock." Military Faculty, Central Inst for the Advanced Training of Physicians. Moscow, 1956. (Dissertation for the Degree of Candidate in Medical Sciences).

Knizhnaya letopis' No. 21, 1956. Moscow.

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S/177/60/000/007/002/011 D264/D304

AUTHOR:

Kaplan, Ye. Ya., Candidate of Medical Sciences,

Lieutenant Colonel, Medical Corps

TITLE:

The effects of prolonged waiting for take-off on the working capacity of pilots with emotional-

vegetative instability

PERIODICAL:

Voyenno-meditsinskiy zhurnal, no. 7, 1960, 16-19

TEXT: The aim of the research was to determine the effects of long waits at the airfield on the working capacity of pilots with symptoms of asthenia and emotional-vegetative lability. Tests were run on two groups of fliers aged 23-35. The first group contained healthy, emotionally stable persons without vegetative disturbances. The second group comprised persons with symptoms of emotional-vegetative lability. Studies were made of:1) the functional state of the cardiovascular system using dosed physical strain tests; 2) the muscular strength of the wrists with the aid of a dynamometer; 3) the extent and distribution of attention as

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Card 1/2

25248 The effects of prolonged waiting... S/177/60/000/007/002/011 D264/D304

checked by numbered tables; 4) flying capacity, judged by the flight leader. The study showed that waiting around for take-off definitely affects the functional state of fliers with certain deviations in health and has a detrimental effect on their ability to fulfill tasks. In healthy and emotionally sound fliers, the quality of pilot technique in flights after a long waiting period did not alter appreciably, whereas it deteriorated somewhat in the emotionally labile fliers. The author recommends that the latter type of fliers be singled out by Air Force doctors and that their flights be planned to eliminate prolonged waiting around. There are 2 figures.

SUBMITTED:

March, 1960

Card 2/2

L 20794-65 EWG(J)/EWG(r)/EWT(1)/FS(v)-3/EWG(v)/EWG(a)/EWG(c) Po-5/Po-4/
Pa-4 AFWL/ASD(a)-5/AEDC(a)/ASD(1)-3/AMD/AFTC(a)/ESD(t) DD
ACCESSION NR: AR4046196 S/0299/64/00C/016/A013/A013

SOURCE: Ref. zh. Biologiya. Svodnyzy tom, Abs. 16Al09

AUTHOR: Kovalenko, A. F.; Kaplan, Ye. Ya.; Boyarkin, V. P.; Klochkov, A. M.

TITLE: Pathogenesis of hemodynamic disorders during supersonic air flow action

CITED SOURCE: Sb. Aviats. i kosmich. meditsina. N., 1963, 252-254

TOPIC TAGS: dog, supersonic airflow, biological effect, blood, hemodynamics, blood pressure, cardiovascular system, nervous system, noise

TRANSLATION: The effect of supersonic mirflew (1600-km/hr) on the cardiovascular and nervous systems of dogs was determined in acute and chronic experiments. Shifts in cardiac muscle excitability and conductivity took place during airflow action. An increase in arterial pressure (by 10-15%) and blood circulation rate (by 15-20%) during increase in airflow speed took place due to the noise factor

Cord 1/2

L 20794-65 Accession Nr: Ar4046196

(120 db). During direct airflow action, arterial pressure decreases (by 30-35%) and blood circulation rate is retarded (by 20-30%).

After 30-50 min the hemodynamic disorders are similar to those of traumatic shook. Pressor reaction to carotid artery constriction was reduced by 20-30%. Excitability of the vasomotor and respiratory center increased under the influence of airflow noise and decreased during airflow impact action. The functional state of the sympathetic nerves changed in a similar manner. No significant changes were observed on the part of the parasympathetic immervation state during airflow noise and impact action. Airflow noise caused intensification of brain bioelectric activity. Bioelectric activity change in the cortex during impact airflow action attests to devolopment of inhibiting processes. Activity of subcortical formations increased in some animals and decreased in others. Airflow effect on the organism was insignificant in cases when special protection was used.

SUB CODE: LS

ENGL: 00

Cor : 2/2

AGADZHANYAN, N.A.; ZHAROV, S.G.; KALINICHENKO, I.R.; KARPOVA, L.I.; KAPLAN, Ye.Ya.; KUZNETSOV, A.G.; OSIPOVA, M.M.; MAZIN, A.N.; SERGIYENKO, A.V.

> Effect of various rates of decompression on the human body. Voen. med. zhur. no.10:49-53 0 165. (MIRA 18:11)

CIA-RDP86-00513R000720510002-4"

APPROVED FOR RELEASE: 06/13/2000

148 Ja-F 165.

ZUKHAR', V.P. (Moskva); KAPLAN, Ye.Ya. (Honkva); M.ESTEOV, Ya.A. (Moskva); FUSHKINA, I.P. (Moskva)

Experiment in collective hypnopedia. Vop. psikhol. 11 no.1:143-

(MIRA 18:4)

L 10955-67 EMT(1) SCTB DD/GD SOURCE CODE: UR/0000/66/000/000/0193/0193
AUTHOR: Kaplan, Ye. Ya.; Ogleznev, V. V.
ORG: none
TITLE: The effect of meximine on gas metabolism in animals under conditions of an altered gas medium [Paper presented at the Conference on Problems of Space Medicine held in Moscow from 24 to 27 May 1966]
SCURCE: Konferentsiya po problemam kosmicheskoy meditsiny, 1966. Problemy kosmicheskoy meditsiny. (Problems of space medicine); materialy konferentsii, Moscow, 1966, 193
TOPIC TAGS: hypoxia, hyperoxia, mexamine, drug effect, hypoxia tolerance, biologic metabolism
ABSTRACT: The effect of oral mexamine (5-methoxytryptamine) in a dosage of
chamber altitudes of 7300 m and 11300 m and 11300 m
Control rats did not receive mexamine.
It was found that gas metabolism is not constant during 20 to 30 days
It was found that gas metabolism is not constant in a pure oxygen atmosphere. The gas metabolism of both groups of rats
Card 1/2

L 10255-67

ACC NR: AT6036574

showed the resting C₂ requirement and CO₂ excretion to be 10% to 35% below initial data. The decrease in gas metabolism was greater in the experimental (mexamine) rats, indicating that mexamine has possibilities as an agent for increasing resistance to oxygen deficit.

As an active antioxidant, mexamine inhibits oxidative processes in tissues, and can lower the tissue oxygen requirement and thus decrease the oxygen deficit during hypoxia or hyperoxia. It has been shown that decreasing oxygen deficit increases the resistance of the organism to acute hypoxia. It is concluded that antioxidants of the mexamine type may be used as prophylactic drugs to increase the resistance of the organism to oxygen starvation. [W.A. No. 22; ATD Report 66-116]

SUB CODE: 06 / SUBM DATE: OOMay66

Card 2/2

DD/GD 302B 20050-07 ...T(1)SOURCE CODE: UR/0000/66/000/000/0194/0395 ACC NR: AT6036575 200 AUTHOR: Kaplan, Ye. Ya. ORG: none TITIE: Increasing the organism's resistance to hypoxia by means of antioxidants Paper presented at the Conference on Problems of Space Medicine held in Moscow from 24 to 27 May 1966] SCURCE: Konferentsiya po problemam kosmicheskoy meditsiny, 1966. Problemy kosmicheskoy meditsiny. (Problems of space medicine); materialy konferentsii, Moscow, 1966, 194-195 TOPIC TAGS: hypoxia, biologic respiration, central nervous system, biologic metabolism, drug effect ABSTRACT: Not only training, but also pharmacological agents may be used to increase resistance to low atmospheric oxygen pressures.

Antioxidants have been proposed to decrease tissue oxygen requirements, and create conditions of more economical oxygen utilization. Drugs from the antioxidant group were studied in 250 white mice, grouped as follows: Group 1, receiving 200 mg/kg of oral mexamine (5-methoxytryptamine); Group 2, receiving 150 m. g of intraperitoneal BE-57; Group 3, receiving 40 mg/kg of intraperitoneal ambunol (4-[(N, N' -di-(-hydroxyethyl)-(amino-ethyl)]-1, 2-ditert. butyl phenol); and Group 4, receiving a physiological solution (controls). The mice were "elevated" in a pressure chamber to an equivalent altitude of 9000 m at 3 km/min; after 2 min at this altitude they were "elevated" an additional 1000 m every 5 min. Protective effectiveness of drugs was Cord 1/2

L 10956-67

ACC NR: AT6036575

evaluated by the time until respiration ceased. The following additional determinations were made: subliminal pulse summation, motor reflex latent period, and vital staining.

Respiration ceased later in the mice receiving antioxidants. Average time to death in the controls was 6.5 min at an "altitude" of 9 to 10 km. In the mexamine group, average time to death was 17.5 min at 11 to 12 km; in the BE-57 group, time to death was 15.3 min and in the ambunol group, 14.8 min (at "altitudes" of 10 to 12 km). The animals receiving antioxidants required 30% fewer subliminal pulses to evoke motor contractions than the control animals. Motor reflex latent period was 35% to 50% shorter in the experimental mice than in the controls, indicating that the functional state of the CNS was less impaired in the animals receiving antioxidants.

Vital staining of the brain after hypoxia, it was found, was 20% to 25% less pronounced in the experimental mice than in the controls. If it is true that the sorption properties of cell proteins are directly related to their degree of alteration and denaturation by injury, this means that use of the studied antioxidant drugs reduced denaturation of cerebral tissue proteins during hypoxia. [W.A. No. 22; ATD Report 66-116] SUB CODE: C6 / SUBM DATE: OCMay66

KAPLAN, Yu. D. Cand. Med. Sci.

"Twenty-Five Years of Work in the Eye Consultation Room of the Institute of Workers' Hygiene and Occupational Diseases, Academy of Sciences of the USSR," Vest. Oftalmol., 28, No.4, 1949

Eye Inst. Labor Hygiene and Occupational Diseases



ANDREYEVA-GALANINA, Ye.TS., prof.; GENKIN, S.M., prof. [deceased]; GUS'KOVA, A.K., doktor med. nauk; DVIZHKOV, P.P., prof.; DOLGOV, A.P., prof.; IROGICHINA, E.A., prof.; YEVGENOVA, M.V., doktor med. nauk; KAPLAN, Yu.D., kand. med. nauk; KOZLOV, L.A., st. nauchn. sotr.; LETAVET, A.A., prof.; MARTSINKOVSKIY, B.I., prof. [deceased]; MOLOKANOV, K.P., prof.; RASHEVSKAYA, A.M., prof.; SOSNOVIK, I.Ya., prof. [deceased]; SENKEVICH, N.A., dots.; EL'KIN, M.A., kand. med. nauk; RABEN, A.S., red.; SHATALOV, N.N., red.

[Occupational diseases; a manual for physicians] Professional'nye bolezni; rukovodstvo dlia vrachei. 2., dop. izd. Moskva, Meditsina, 1964. 757 p. (MIRA 17:11)

1. Deystvitel nyy chlen AMN SSSR (for Letavet).

MOTRENKO, A.I.; KAPIAN, Yu.G.

Mobile electric laboratory. Energ. 1 slektrotekh. prom. nc.4: 64-67 0-D 163. (MIRA 17:10)

NAME OF THE PARTY OF THE PARTY

KAPLAN, Yu.I.

Calculation of the nonaxisymmetric state of cylindrical shells taking into consideration the elasticity of reinforcing transverse trusses. Izv.vys.ucheb.zav.;av.tekh.7 no.2:20-26 '64. (MIRA 17:9)

KAPLAN, Yu.I.

Analysis of the axisymmetric stressed state of cylindrical shells in the presence of discretely arranged transverses. Izv. vys. ucheb. zav.; av. tekh. 6 no.4:70-78 163. (MIRA 17:8)

	L 8733-55 ENT(d)/ENT(m)/ENA(d)/ENP(k)/ENA(h) Pi-4/Peb ASD(1)/AFTC(p)
. A	ACCESSION NR: AP4040968 S/0147/64/000/002/0020/0026
Account to the second	AUTHOR: Kaplan, Yu. 1. TITLE: Calculation of the non-axiosymmetrical stress state of cylindrical shells with consideration of the elasticity of the reinforcing ribs
	SOURCE: IVUZ. Aviatsionnaya tekhnika, no. 2, 1964, 20-26
The second secon	TOPIC TAGS: shell, cylindrical shell, nonaxiosymmetrical stress, rib elasticity, reinforcing rib
The second secon	ABSTRACT: Using the methods developed in a previous paper (Yu. I. Kaplan. Raschet osesimmetrichnogo napryazhennogo sostoyaniya tsilindricheskikh obolochek pri nalichii diskretno raspolozhenny*kh uprugikh shpangoutov. IVUZ, "Aviatsionnaya tekhnika." no. 4. 1963), the author derives analogous results for non-axiosymmetrical strain. All the suppositions concerning the work of the transverse ribs and the general approach to the solution of the problem were outlined in the work referenced above. As a functional unknown in the solution of the problem by the energy method, the author adopts the sum moments in the longity inal sections
	$n_{\varphi} = \sum_{n=1}^{\infty} \psi_n(x) \cos n\varphi. \qquad (1)$
-	Card 1/4

L. 8735-55

ACCESSION NR: AP3040968

The application of the Euler equation leads to the following differential equation $\begin{pmatrix} x_1^{N_1} & D_R^{n_1}(n^2-1)^3 \\ E_R^{n_2} & E_R^{n_2} \end{pmatrix} \psi_n + B_p = 0, \qquad (2)$ which is solved in the following form $\psi_n(x) = A_1 \Phi_0(x) + B_1 \Phi_1(x) + C_1 \Phi_2(x) + D_1 \Phi_2(x) + \Phi^*(x)_1^2 - \frac{1}{\Phi_0^2} \frac{1}{(x=0)} 4k_n^4 \sum_{n=1}^{\infty} \frac{E_1 P_0}{D_R} \psi_n(x=a_{n-1}) \Phi_2(x-a_{n-1}). \qquad (3)$ The transverse bending of cylindrical shells is considered and the equation is solved in the following form $+4k_n \int_0^1 A_n(x) \Phi_1(x-x) dx - 4k_n \sum_{n=1}^{\infty} \frac{E_1 P_0}{D_R} \psi_n(x=a_{n-1}) \Phi_3(x-a_{n-1}). \qquad (4)$

I. 8733-65 ACCESSION NR: AP4040988

Solving for a non-symmetrical form of stability loss under the influence of axial forces, the general expression is written in the following form: $\Psi_n(x) = A_1 \Psi_0(x) + B_1 \Psi_1(x) + C_1 \Psi_1(x) + D_1 \Psi_1(x) - C_1 \Psi_2(x) = A_1 \Psi_1(x) + C_1 \Psi_2(x) + C_2 \Psi_3(x) + C_3 \Psi_3(x) = A_1 \Psi_3(x) + C_2 \Psi_3(x) + C_3 \Psi_3(x) + C_4 \Psi_3(x) + C_4$

$$\frac{1}{2n(\tilde{\gamma}_{2n}^2 - \tilde{\gamma}_{1n}^2)} 4k_n^4 \sum_{n=0}^{\infty} \frac{E_{1R_n}}{DR} \psi_n(x = a_{n-1}) \Phi_0(x - a_{n-1}). \tag{5}$$

while the general expression for stability in the case of the joint effect of uniform transverse pressure and axial compression is given as

$$\psi_{a}(x) = A_{1}\Phi_{0}(x) + B_{1}\Phi_{1}(x) + C_{1}\Phi_{2}(x) + D_{1}\Phi_{3}(x) + \frac{1}{2}$$

$$\frac{4k_s^3}{\lambda_n(\beta_n^1+\beta_{2s}^2)} \sum_{j=1}^{n} \frac{E_{R_j}}{D_R} \gamma_n(x-\alpha_{j-1}) \Phi_3(x-\alpha_{j-1}). \tag{6}$$
The author has found that, for any number of elastic intermediate ribs, the problem reduces

The author has found that, for any number of elastic intermediate ribs, the problem reduces itself to no more than four constants, and in actual practice — to two (since the outer or extreme ribs are almost always sufficiently powerful), for which the system of equations may be written in a general form. Using different problems as examples, the author demonstrates the abblicability of the method proposed for reaching a general solution. Orig. art. has: 1 table and 51 formulas.

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5/879/62/000/000/070/088 D234/D308

AUTHOR: Kaplan, Yu. I. (Khar'kov)

TITLE: An engineer's method of design of toroidal shells

Teoriya plastin i obolochek: trudy II Vsesoyuznoy konferentsii, L'vov, 15-21 sentyabrya 1961 g. Kiev, Izd-vc AN USSR, 1962, 394-395 SOURCE:

TEXT: A summary describing a method in which the total moment in the meridian plane is expanded into a series; the coefficients of the expansion are used to express all other forces and are subsequently determined by the energy method, from an infinite system of linear equations.

Card 1/1

MAPLAN, Yu.I., inzh. (Khar'kov)

Deformation of toroidal shells. Rasch. prostr. konstr. no.8:
107-139 '62. (MIRA 16:6)

(Elastic plates and shells)

KAPLAN, Z.	Α,		DECEASED c. '62		1963/
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GLEBOVSKAYA, Ye.A.; ZAKHAROV, A.A.; LAPINA, I.K.; KAPLAN, Z.G.

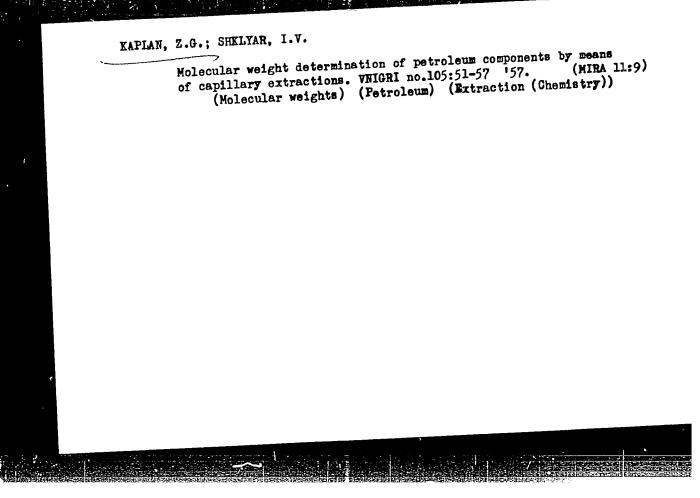
Absorption spectra of benzene in 5 - 6 region. VNIGRI no.105: 23-36 '57. (MIRA 11:9)

SHKLYAR, I.V.; KAPLAN, Z.G.

Luminescence and capillary properties of the petroleum fractions.

VNIGRI no.105:37-50 '57. (MIRA 11:9)

(Petroleum products) (Luminescence) (Capillarity)



ADEL BERG, I.M.; KAPLAN, Z.G.; KOLYADNYY, S.N.

Lithology of Neogene red beds in Turkmenistan. Geol.nefti i gaza 3 no.10:40-43 0 '59. (MIRA 12:12)

1. Vsesoyuznyy neftyanoy nauchno-issledovatel skiy geologorazvedochnyy institut. (Turkmenistan--Clay)

CAPLIKAS, J.; KAPLANAS, O., red.; VYSOMIRSKIS, C., tekhn. red.

Kedainiai. Vilnius, Valstybine politines ir mokslines
lit-ros leidykla, 1963. 47 p.

(MIRA 17:4)

MESYS, J.; KAPLANAS, O., red.

Klaipeda. Vilnius, Mintis, 1964. 92 p. (MIRA 18:12)

BUTKUS, Tadas Styapono; GERL'PERNAS, D.[translator]; KAPLANAS, O. red.

[Get acquainted with Soviet Lithuania. Translated from the Lithuania] Poznakom'tes' s Sovetskoi Litvoi. Vilnius, Mintis, 1965. 100 p. (MIRA 18:10)

MESYS, J.; KAPLANAS, O., red.

Klaipeda. Vilnius, Mintis, 1964. 93 p. [In Lithuanian]
(MIRA 18:3)

KAPLANAS, V.I.

Woven artificial arteries. Tekst.prom. 24 no.1:28-29 Ja '64. (MIRA 17:3)

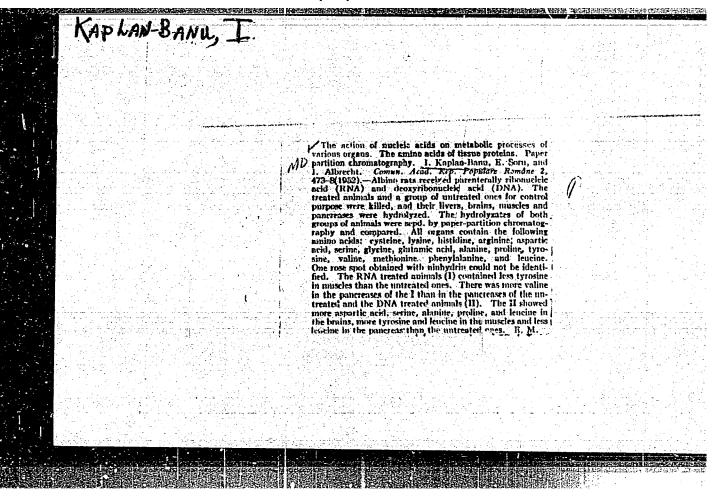
1. Glavnyy inzh. tekstil'no-galantereynoy fabriki "Kaspinas".

KAPLANAS, V. I.

Beam frames without superstructure for narrow goods looms. Tekst. prom. 23 no.3:57-60 Mr *63. (MIRA 16:4)

l. Glavnyy inzhener Kaunasskoy tekstil $^{\rm t}$ no-galantereynoy fabriki "Kaspinas".

(Looms)



KAPLAN-INGEL', R. I.

2/4/77

<u>KAPLAN-INGEL', R. I.</u> Zdaniye Kunstkamery-Kolybel' russkoy nauki i Huzey H. V. Lomonosova. (Leningrad). Priroda, 1949, No. 7, S. 82-87.

SO: Letopis, No. 32, 1949.

KAPLANETS, N.D., otv.red.; CUDKOV, F.F., otv.red.; RATNIKOVA, A.P., red., 1zd-va; GALANOVA, V.V., tekhn.red.

THE STATE OF THE S

[Instruction on safe work methods for stope mining in flat and inclined seams] Instruktsiia po bezopasnym metodam rabot dlia gornorabochego ochistnogo zaboia na pologikh i naklonnykh plastakh. Isd.2. Moskva, Gos.nauchno-tekhn.izd-vo lit-ry po gornomu delu, 1960. 46 p. (MIRA 14:3) (Stoping (Mining)--Safety measures)

KAPLANETS, N.D., otv. red.; GUDKOV, F.F., otv. red.; SHOROKHOVA, A.V., red. izd-va; IL'INSKAYA, G.M., tekhn. red.

[Safety regulations for the loader-hauler] Instruktsiia po bezopasnym metodam rabot dlia nasypshchika-otkatchika. Odobrena Prezidiumom TsK Profsoiuza rabochikh ugol'noi promyshlennosti 11 marta 1959 g. Moskva, Gos.nauchno-tekhn.izd-vo lit-ry po gornomu delu, 1960. 26 p. (MIRA 15:1) (Coal mines and mining-Safety measures)

KAPLANETS, N.D., otv. red.; GUDKOV, F.F., otv. red.; RATNIKOVA, A.P., red. izd-va; GALANOVA, V.V., tekhn. red.

HACTORIS CONTROL CONTR

[Safety regulations for the miner working with a pick hammer in steep seams] Instruktsiia po vezopasnym metodam rabot dlia zaboishchika na otboinom molotke na krutykh plastakh. 2 izd. Odobrena Prezidiumom TsK Profsoiuza rabochikh ugol'noi promyshlennosti 11 marta 1959 g. Moskva, Gos.nauchnotekhn.izd-vo lit-ry po gornomu delu, 1960. 28 p. (MIRA 15:1)

(Coal mines and mining -Safety measures)

KAPLANETS, N.D., otv. red.; GUDKOV, F.F., otv. red.; RATNIKOVA, A.P., red. izd-va; GALANOVA, V.V., tekhn. red.

在**的现在分词**是那种性能的现在分词是不是不是不是一种的人的,但是一种的人,但是一种的人的人的人,但是一种的人的人,但是一种的人的人,也是一个人的人,也是一个人的人

[Safety regulations for 1st and 2d class miners] Instruktsiia po bezopasnym metodam rabot dlia gornorabochego I i II razriadov. 2. izd. Odobrena Prezidiumom Tsk Profsoiuza rabochikh ugol'noi promyshlennosti 1l maia 1959 g. Moskva, Gos.nauchnotekhn.izd-vo lit-ry po gornomu delu, 1960. 50 p.

(MIRA 15:1)

(Coal mines and mining—Safety measures)

"APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000720510002-4

ACC NRI

AP7002621 (A, M)

SOURCE CODE: UR/0413/66/000/023/03 63/0136

INVENTOR; Pogibko, M. G.; Kaplanets, Yu. N.; Ivannikov, V. K.

ORG: None

TITLE: A device for checking, signalling and controlling the temperature of liquid and gaseous explosive media. Class 74, No. 189333 [announced by the Donetsk Scientific Research and Design Institute for Automation of Mining Machinery (Donetskiy nauchnoissledovatel'skiy i proyektnyy institut avtomatizatsii gornykh mashin)]

SOURCE: Izobreteniya, promyshlennyye obraztsy, tovarnyye znaki, no. 23, 1966, 138

TOPIC TAGS: temperature control, temperature measurement, explosive, electronic measurement

ABSTRACT: This Author's Certificate introduces a device for checking, signalling and controlling the temperature of liquid and gaseous explosive media. The unit contains a sensing element in the form of a set of thermistors, each of which is connected to one of the arms of an unbalanced bridge. The device also contains sparkless noncontact relays with transistorized blocking generators, a power supply and a meter. The design provides for high sensitivity and fairly strong control signals with relay characteristics. These signals may be used for direct control of actuating mechanisms. The transistors, which act as nonlinear resistors, have their inputs connected to unbalanced bridges while their outputs are connected to the relay control windings which serve for both starting and stopping,

SUB CODE:

GEL SUBM DATE:

Card 1/1 UDC: 536.587.082.64

KAPLANOV, G.I.

Possibilities of defining with greater accuracy the stressedstrained state during two-line rolling. Sbor.trud. UNIIM no.ll:150-163 '65.

(MIRA 18:11)

"APPROVED FOR RELEASE: 06/13/2000

CIA-RDP86-00513R000720510002-4

L 07441-67 EWP(k)/EWT(m)/EWP(t)/ETI IJP(c) JD/HW

ACC NR: AP6030439 SOURCE CODE: UR/0420/66/000/006/0102/0106

AUTHOR: Kaplanov, G. I.

ORG: None

TITLE: Velocity field for the case of two-dimensional rolling

SOURCE: Samoletostroyeniye i tekhnika vozdushnogo flota, no. 6, 1966, 102-106

TOPIC TAGS: flow velocity, metal deformation, metal rolling

ABSTRACT: The author considers the steady-state process of two-dimensional rolling where plastic deformation by compression takes place throughout the entire cross section of the workpiece. A method is proposed for determining the velocity field of the metal particles in the deformation zone on the basis of an experimental evaluation of the relationship between the velocities of the points and their coordinates combined with a solution of the continuity equation of the medium with the appropriate boundary conditions. Expressions are derived for the various velocity components in the bipolar coordinate system. Graphs are given showing the distribution of the longitudinal components of absolute velocities with respect to the height of cross sections in various zones of the deformation region plotted from the final expression derived by the author for these components in the two-dimensional case. The results show qualitative agreement with experimentally confirmed curves for horizontal velocities under these rolling conditions. Orig. art. has: 1 figure, 13 formulas.

SUB CODE: 11 SUBM DATE: none/ ORIG REF: 005

Card 1/1

L 24781-66 EWT(m)/EWP(w)/T-2/EWP(t)/EWP(k)/ETC(m)-6 IJP(c) JD/WW/HW/EW ACC NR: AP6007898 SOURCE CODE: UR/0420/65/000/002/0682/0089

AUTHOR: Kaplanov, G. I.

ORG: none

TITLE: The stress-strain state during two-dimensional reduction

SOURCE: Samoletostroyeniye i tekhnika vozdushnogo flota, no. 2, 1965, 82-89

TOPIC TAGS: mechanical stress, compressive stress, solid mechanics, metal stress

ABSTRACT: The author investigates the solution to the problem of two-dimensional reduction of a rectangular parallelepiped solid slab of metal between plane-parallel rough plates employing general equations of mechanics of continuous media. Assuming a parabolic nature of the distribution of the horizontal components of the particle velocities along the height of the solid, and using boundary conditions for the region of stagnation, the velocity field of the motion of various points are determined as:

$$v_y = -\frac{3}{2} \frac{v_0}{x_k} y \left(1 - \frac{x^2}{x_k^2}\right); \ v_z = 0;$$

$$v_x = \frac{3}{2} \frac{\sigma_0}{x_h} x \left(1 - \frac{x^2}{3x_h^2}\right)$$

Card 1/2

L 24781-66

ACC NR: AP6007898;

These conclusions agree with the experimental data. As a result of the application of the general equations of the mechanics of continuous media to the analysis of the process of reduction under specified conditions, the tangential and the normal stresses were determined for every point of the deformed solid. The theoretical curve of the normal contact stresses, calculated according to the formula

$$\sigma_{xx} = \sigma_{xx}^{E} - \frac{\sigma_{s}}{\sqrt{3}} \left[\frac{x_{k}y_{E}}{4x_{k}^{3} - y_{E}^{3}} + \frac{x_{k}^{4}(4x_{k}^{3} - y^{3}) - 2x_{k}^{2}x^{7}(x_{k}^{3} + x^{3})}{x^{2}(4x_{k}^{2} - y^{3})} \frac{1}{\sqrt{(x_{k}^{3} - x^{2})^{3} + x^{2}y^{3}}} + \frac{x_{k}^{2} - x^{2}}{\sqrt{(x_{k}^{3} - x^{2})^{3} + x^{2}y^{3}}} + \frac{1}{2} \operatorname{Arsh} \frac{y_{E}}{\sqrt{4x_{k}^{3} - y_{E}^{2}}} - \frac{1}{2} \operatorname{Arsh} \frac{y^{2} - 2(x_{k}^{3} - x^{3})}{y \sqrt{4x_{k}^{3} - y^{3}}} \right]$$

agrees with the experimental data of Ye. P. Unksov (Inzhenernyye metody rascheta uziliy pri obrabotke metallov davleniyem. Mashgiz, 1955). Orig. art. has: 4 figures and 29 formulas.

Metal working

SUB CODE: 20/ SUBM DATE: none / ORIG REF: 004

Card 2/2 W

WAPLANOV, LEV. Georgiyevich; OGNEV, S.I., prof., red; GEPTNER, V.G. prof., red.; ENDEL MAN, G.N., vedushchiy red.

[Tiger, wapiti, elk] Tigr, iziubr', los'. Moskva, Izd-vo Mosk.ob-va prirody, 1948 128 p. (Materialy k poznaniu fauny i flory SSSR. Otdel zoologicheskii, no.14) (MIRA 11:3) (Sikhote-Alin Range--Tigers) (Sikhote-Alin Range--Deer)

AND AND PROPERTY OF THE PROPER Kaphanov J M.R.

AUTHOR:

Not Given.

PA - 2021

TITLE:

New Books.

PERIODICAL:

Radiotekhnika, 1957, Vol 12, Nr 1, p 81 (U.S.S.R.) Received: 2 / 1957

Reviewed: 3 / 1957

ABSTRACT:

M.I.VITENBERG: Computation of electromagnetic relays for apparatus of automation and communication. Gosenergoizdat, M.L.1956, 464

pages, price 14.50 roubles.

Theory and computation of the electromagnetic relays of paralleland alternating current for apparatus of automation and communication. Analytical and graphoanalytical methods of computations, constructions, test data. The book is destined to be used by engineers and technical engineers.

M.P.KAPLANOV. V.A.LEVIN: The automatic foundation of frequency, 2.enlarged edition. Gosenergoizdat, M.L. 1956, 200 pages, price 11.50 roubles.

Description and classification. Computation formulae for construction. The book is for radio specialists and advanced university students.

The Successes attained by Electrovacuum Engineering, edited by Prof-G.A.TJAGUNOV, L.M.Gosenergoizdet, 1956, 256 pages, price 10.25 roubles. A collection of articles on the types, computation methods, properties, and physical phenomena of some new types of electrovacuum de-

Card 1/2

Card 2/2

KAPLANOV, Murad Rashidovich; LEVIN, Viktor Aronovich: Prinimali uchastiye:

KAGANOV, V.I.; NEMIROVSKIY, M.S.; MOZHZHEVELOV, B.N., red.;

LARIONOV, G.Ye.G., tekhn. red.

[Automatic frequency control] Avtomaticheskaia podstroika chastoty. Izd.3., dop. Moskva, Gosenergoizdat, 1962. 319 p. (MIRA 15:9)

(Frequency regulation)

(Radio)

CIA-RDP86-00513R000720510002-4" **APPROVED FOR RELEASE: 06/13/2000**

YEFIMENKO, S.P.; KAPLANOV, V.I.

Defects in sheet cut on a transverse cutting unit. Metallurg 10 (MIRA 18:5) no.3:31 Mr '65.

l. Zamestitel' nachal'nika tsekha kholodnoy prokatki zawada im. Kl'icha (for Yefimenko). 2. Nachal'nik tekhnicheskogo byuro zavoda im. Il'icha (for Kaplanov).

"APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000720510002-4

KAPLANOV, V.I.

Some remarks on the design of continuous pickling units. Metallurg 9 no.3:28-29 Mr 64. (MIRA 17:3)

l. Nachal'nik tekhnologicheskogo byuro tsekha kholodnoy prokatki zavoda im. Il'icha.

YEFIMENKO, S.P.; KAPLANOV, V.I.

Mastering the operation of high-speed four-stand mills for cold rolling. Metallurg 10 no.8:26-27 Ag 65. (MIRA 18:8)

GVOZDJAK,J.; NIEDERLAND,T.R.; BACHLEDOVA,E.; TOMIK,F.; FEDORCAKOVA,A.; KRAMAR,T. Technical assistance: KAPLANOVA, M.

是是是不是是是一个人,我们就是一个人,我们们们就是一个人,我们们们就是一个人,我们们们们的一个人,我们们们们们的一个人,我们们们们们们们们的一个人,我们们们们们

Experimental cardiomyofibrosis produced by diet (ECFD). I. Changes in carbon article metabolism of the myocardium in dynamic development. Cor. vasa 6 no.2:153-158 *64.

Experimental cardiomyofibrosis produced by diet (ECFD). II. Changes in lipid metabolism in the myocardium. Ibid.:159-163

1. Research Laboratory of Pharmacobiochemistry, IIIrd Internal Clinic, Faculty of Medicine, Komensky University, Bratislava, Czechoslovakia.

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GVOZDJAK, J.; NIPOFT JAND, T.R.; Techn. epolupraca M. KAPLANOVA

是是一种的人,我们也是一个人的人,我们就是一个人的人,我们就是一个人的人,我们就是一个人的人,我们就是一个人的人的人,我们也是一个人的人的人,我们就是一个人的人

Effect of chronic intermittent administration of digitoxin on carbonhymrate metabolism. Bratisl. Lek. Listy 44 no.3: 449-453 164.

1. Vedecke laboratorium farmakohiochimie Lek. fak. Univerzity Komenakeho v Bratislave (veduci prof. MUDr. Miederland, T.R., Dr.Sc.).

GVCZDJAK, J.; NIEDERLAND, T. R., with the technical assistance of KAPLANOVA, M.

The effect of digitorin on the lipid metabolism of myocardium and striated muscle. Cor vasa 4 no.2:154-160 62.

1. The Pharmacobiochemical Laboratory of the III Internal Clinic, Medical Faculty, Comenius University, Bratislava, Czechoslovakia.

(MYOCARDIUM metab) (MUSCLES metab) (LIPIDS metab) (DIGITALIS pharmacol)

PARTICIPATION OF THE PROPERTY OF THE PROPERTY

GVOZDJAK, J.; FEDORCAKOVA, A.; BACHLEDOVA, E.; NIEDERLAND, T.R.; Technicka spolupraca: KAPLANOVA, M.; FADICOVA, L.

On biochemical changes of the rat myocardium in late ontogenesis during experimental cardiomyofibrosis. Bratisl. lek. listy 45 no.6:334-338 30 S *165.

1. III. interna klinika Lek. fak. Univerzity Komenskeho v Bratislave (veduci prof. MUDr. T.R. Niederland, DrSc.).

2020 Philippe Philippe | Part | Part

GVOZDJAK, J.; NIEDERLAND, T. R., with the technical assistance of KAPLANOVA, M.

The effect of digitoxin on protein content in the myocardium, striated muscle and liver of the rat. Cor vasa 4 no.2:161-164 162.

1. The Pharmacobiochemical Laboratory of the III Internal Clinic, Medical Faculty, Comenius University, Bratislava, Czechoslovakia.

(DIGITALIS pharmacol) (PROTEINS metab)
(MYOCARDIUM metab) (MUSCLES metab)
(LIVER metab)

GVOZDJAK, J.; with the technical assistance of: KAPLANOVA, M.

The dynamics of myocardial glycogen content during chronic administration of digitoxin. Cor vasa 5 no.3:220-224 163.

1. Research Laboratory of Pharmacobiochemistry, IIIrd Internal Clinic, Komensky University, Bratislava, Czechoslovakia.

(MIOCARDIUM) (CARBOHYDRATE METABOLISM)

(GLYCOGEN) (DIGITOXIN)

GVOZDJIK, J.; with the technical assistance of: KAPLANOVA, M.

The behaviour of myocardial lipids during chronic administration of digitoxin. Cor vasa 5 no.3:225-229 163.

1. Research Laboratory of Fharmacobiochemistry, IIIrd Internal Clinic Medical Faculty, Komensky University, Bratislava, Czechoslovakia.

(MYOCARDIUM) (LIPID METABULISM)
(FATTY ACIDS) (CHOLESTEROL)
(PHOSPHOLIPIDS) (DIGITOXIN)

ALIYEV, V.S.; ALIYEV, Z.E.; KASIMOVA, A.P.; KAPLANOVA, V.D.; MURAVCHIK, M.Ye.; TER-SARKISOV, B.G.

是一个人,我们就是一个人的人,我们就是一个人的人,我们就是一个人的人,我们就是一个人的人,我们就是一个人的人,我们就是一个人的人,我们就是一个人的人,我们就是一

Preliminary preparation of the dehydrating K-5 catalyst before its introduction into the reactor. Azerb.neft.khoz. 41 no.8: 35-39 Ag '62. (Catalysts)

ALIYEV, V.S.; KASIMOVA, A.P.; KYAZIMOV, Sh.K.; KAPLANOVA, V.O.

Study and development of the process of dehydrogenation of propane into propylene. Azerb.khim.shur. no:2:49-60 [159. (HIRA 13:6)

(Propane) (Propene)

KAPLANOVICH, S.L. 14(8); 25(5)

PHASE I BOOK EXPLOITATION

SOV/1646

Tsetlin, Boris Viktorovich, and Semen Lipovich Kaplanovich

SERVER CONTROL OF THE CONTROL OF THE

Okhrana truda pri ekspluatatsii promyshlennykh predpriyatiy; prakticheskoye rukovodstvo (Plant Safety in Industrial Establishments; Practical Guide) Moscow, Koiz, 1958. 345 p. 20,000 copies printed.

Ed.: Ye.N. Blinder; Tech. Ed.: N.P. Tsirul'nitskiy.

PURPOSE: This industrial safety manual is intended for personnel in producers' cooperative establishments and local industries.

COVERAGE: The manual emphasizes the safe operational aspects of industrial equipment employed in metal working establishments. It describes such items as the basic legislation on labor safety, maintenance of industrial buildings, general safety measures, and personal protective equipment. It outlines precautions that should be taken when operating electrical and hoisting devices, machine tools, boilers and pressure vessels, furnaces and ovens,

Card 1/10

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Plant Safety in Industrial (Cont.) SOV/1646

and gas and electric welding equipment. Measures to be taken when handling inflammable liquids, chemicals, plastics, and glues are also discussed. The concluding chapter is devoted to First Aid. Chapters II, X, and XVII were written by S.L. Kaplanovich, Chapters III and XI were written jointly by S.L. Kaplanovich and B.V. Tsetlin, and the remaining chapters were written by B.V. Tsetlin. There are no references. No personalities are mentioned.

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4. Control over the observance of legislation on plant safety	12
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,	

Card 2/10

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KAPLANS, B.

"On the problem of the preinvastve carcinoma of the cervix: $\mbox{mi-crosxopic diagnosts}$ "

Report submitted to the International onference on Morphological Precursors of Cancer, Perugia, Italy, 26-30 Jun (

THE STATE OF THE S

DASHEVSKIY, A.I.; KAPIANSKAYA, R.L.

Significance of works of S.V. Kravkov's laboratory on the vegetative nature of the color perception apparatus of the eye in clinical practice in the field of glaucoma. Probl. fiziol.opt. 11: 185-198 *55. (MIRA 9:6)

1. Glaznaya klinika Dnepropetrovksogo meditsinskogo instituta.

(GIAUCOMA, physiology,

eff. of green & red on intraocular pressure (Rus))

(COLOR, effects,

green & red on intraocular pressure in glaucoma (Rus))